

MONOLITHIC GLASS PERFORMANCE VALUES

Technical Specifications

	Visible Light Transmission	Visible Light Reflection	Solar Transmission	Solar Reflection	U-Value
1/4" Polished Wire	80%	9%	69%	8%	5.90
1/4" Diamond Cast	84%	8%	74%	7%	5.90
1/4" Georgian Stipolite	86%	8%	81%	8%	5.80

Performance Data

Color	Visible Light Thickness	Solar Transmission	Light to Transmission	Solar Grain
Bronze	1/4"	53%	50%	.84
Bronze	3/8"	37%	34%	.70
Bronze	1/2"	27%	24%	.57
Green	1/4"	77%	47%	1.24
Grey	1/4"	44%	42%	.76
Grey	3/8"	28%	26%	.58
Grey	1/2"	18%	17%	.43
Greylite II	1/4"	9%	8%	.25



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Guardian - New Project 27										
Make-up Name	Visible Light			Solar Energy		Thermal Properties			Light to Solar Gain (LSG)	Thermal Stress (COG) °F/C
	Transmittance	Reflectance		Solar Heat Gain Coefficient (SHGC)	U-Value Winter Night (BTU/hr*ft²*F)	R-Value Winter Night (hr*ft²*F/Btu)	U-Value Summer Day			
		ρ _v % out	ρ _v % in					ρ _v % out		
Default Make-up 01	24	5	4	0.44	1.04	0.96	0.55	Go		
Total Unit (Nominal) = 1/8" Estimated Nominal Glazing Weight : 1.52 lb/ft² Slope = 90° Window Height = 1 meter										

Guardian - Midnight Gray												
Make-up Name	Make-up Icon	Outboard Substrate & Coating	Inboard Substrate & Coating	Transmittance		Reflectance			U-Value		Solar Heat Gain Coefficient (SHGC)	Thermal Stress (°F/C)
				Visible (τ _v %)	Solar (τ _e %)	Visible		Winter Night	Summer Day			
						ρ _v % out	ρ _v % in			ρ _e % in		
Default Make-up 01		Midnight Gray (North America)	Midnight Gray (North America)	9	8	5	4	4	1.03	0.93	0.36	Go
Total Unit = 0.221 in / 5.613 mm Thickness 1/4" (6mm) Slope 90° Thermal Stress Guideline (°F) = Go (144.5)												



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Guardian: Tinted Float Glass Performance Data													
Monolithic Glass													
Thickness	Appearance	Transmission			Reflectance			U-Value		Relative Heat Gain	Shading Coefficient	Solar Heat Grain Coefficient	Light to Solar Grain (LSG)
		Visible Light %	Ultra-Violet %	Solar Energy %	Visible Light Out %	Visible Light In %	Solar Energy %	Winter Night	Summer Day				
Guardian Green													
3 mm	Green	83	42	60	8	8	6	1.04	0.94	174	0.80	0.70	1.19
4 mm	Green	80	36	54	7	7	6	1.04	0.94	165	0.76	0.66	1.22
5 mm	Green	78	32	49	7	7	6	1.03	0.93	157	0.72	0.62	1.25
6 mm	Green	76	28	44	7	7	5	1.03	0.93	150	0.68	0.59	1.28
8 mm	Green	71	22	37	7	7	5	1.03	0.92	139	0.63	0.54	1.31
Twilight Green													
3 mm	Dark Green	78	30	50	7	7	6	1.04	0.94	159	0.73	0.63	1.23
5 mm	Dark Green	71	20	39	7	7	5	1.03	0.93	141	0.64	0.55	1.28
6 mm	Dark Green	67	16	34	7	7	5	1.03	0.93	133	0.60	0.52	1.29
8 mm	Dark Green	61	11	27	6	6	5	1.01	0.92	123	0.55	0.48	1.27
Crystal Gray													
3 mm	Light Gray	76	47	69	7	7	7	1.04	0.94	189	0.88	0.76	1.00
4 mm	Light Gray	72	42	64	7	7	6	1.04	0.94	180	0.84	0.72	1.00
6 mm	Light Gray	65	34	54	6	6	6	1.03	0.93	165	0.76	0.66	0.98
8 mm	Light Gray	58	28	46	6	6	5	1.01	0.92	153	0.70	0.61	0.95
10 mm	Light Gray	52	23	40	6	6	5	1.01	0.91	144	0.66	0.57	0.92
Midnight Gray													
3 mm	Deep Gray	27	6	25	5	5	5	1.04	0.94	119	0.53	0.46	0.59
4 mm	Deep Gray	19	3	17	5	4	5	1.04	0.94	108	0.47	0.41	0.47
5 mm	Deep Gray	14	2	12	5	4	4	1.03	0.93	101	0.44	0.38	0.37
6 mm	Deep Gray	9	1	8	5	4	4	1.03	0.93	96	0.41	0.35	0.26